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Notice of Allowability

Application No.

10/084,505

Examiner

Kaj Olsen

Applicant(s)

OKANO ET AL.

Art Unit

1753

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to the interview of 1-20-2004.
2. ☒ The allowed claim(s) is/are 2-7 and 9-13.
3. ☒ The drawings filed on 28 February 2002 are accepted by the Examiner.
4. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☒ All b) ☐ Some* c) ☐ None of the:
 1. ☒ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).
 - * Certified copies not received: _____.
5. ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application) since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78.
 - (a) ☐ The translation of the foreign language provisional application has been received.
6. ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121 since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. **THIS THREE-MONTH PERIOD IS NOT EXTENDABLE**

7. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
8. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No. _____.
 - (b) ☐ including changes required by the proposed drawing correction filed _____, which has been approved by the Examiner.
 - (c) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No. _____.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the margin according to 37 CFR 1.121(d).

9. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

- | | |
|--|---|
| 1 <input type="checkbox"/> Notice of References Cited (PTO-892) | 5 <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 2 <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 6 <input checked="" type="checkbox"/> Interview Summary (PTO-413), Paper No. <u>1-20-04</u> |
| 3 <input checked="" type="checkbox"/> Information Disclosure Statements (PTO-1449 or PTO/SB/08), Paper No. <u>9-23</u> | 7 <input checked="" type="checkbox"/> Examiner's Amendment/Comment |
| 4 <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit of Biological Material | 8 <input type="checkbox"/> Examiner's Statement of Reasons for Allowance |
| | 9 <input type="checkbox"/> Other |

EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Juan Carlos Marquez on 1-20-2004.

The application has been amended as follows: Claims 2 and 9-12 were amended.

2. (Twice amended) An electrophoresis chip comprising:

an electrical insulating substrate having a linear hydrophilic region in a longitudinal direction and a hydrophobic region adjacent to said hydrophilic region on a surface of said substrate;

an electrophoresis medium, formed on said hydrophilic region of said substrate and having a gap in the medium in the longitudinal direction; and

a pair of electrodes connected to both ends of said electrophoresis medium in said longitudinal direction.

9. (Twice amended) An electrophoresis chip, comprising:

an electrical insulating substrate; and

an electrophoresis medium, formed to be linear in a longitudinal direction on a surface of said substrate and having a gap in the medium in the longitudinal direction,

wherein a region adjacent to said electrophoresis medium on said surface of said substrate is hydrophobic; and

a length of said gap in said longitudinal direction of said electrophoresis medium is set in a range of 0.2 mm to 1 mm.

10. (Twice amended) An electrophoresis chip comprising:

an electrical insulating substrate having a plurality of linear hydrophilic regions formed substantially parallel on a surface and a hydrophobic region adjacent to said hydrophilic regions;

a plurality of electrophoresis media, each formed on one of said plurality of hydrophilic regions of said substrate and having a gap in each electrophoretic media; and

a pair of electrodes, one being connected to one end of each said plurality of electrophoresis media and the other being connected to the other end of each thereof.

11. (Twice amended) An electrophoresis chip comprising:

an electrical insulating substrate having a plurality of linear hydrophilic regions formed substantially parallel on a surface of said substrate and a hydrophobic region adjacent to said hydrophilic regions;

a plurality of electrophoresis media, each formed on one of said hydrophilic regions of said substrate and having a gap in each of said electrophoretic media; and

plural pairs of electrodes individually connected to both ends of each of said plurality of electrophoresis media.

12. (Twice amended) An electrophoresis chip comprising:

an electrical insulating substrate having a thin and long hydrophilic region formed in a longitudinal direction on a surface of said substrate and a hydrophobic region formed surrounding said hydrophilic region; and

an electrophoresis medium, formed on said hydrophilic region of said substrate and having a gap in the medium in the longitudinal direction,

wherein an electrophoresis lane is formed by said electrophoresis medium and sample solution supplied to said gap.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kaj Olsen whose telephone number is (571) 272-1344. The examiner can normally be reached on Monday through Thursday from 7:00 AM-4:30 PM. The examiner can also be reached on alternate Fridays.

If attempts to reach the examiner are unsuccessful, the examiner's supervisor, Mr. Nam Nguyen, can be reached at (571) 272-1342.

When filing a fax in Group 1700, please indicate in the header "Official" for papers that are to be entered into the file, and "Unofficial" for draft documents and other communications with the PTO that are not for entry into the file of this application. This will expedite processing of your papers. The fax number for all official communications is (703) 872-9306.

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Any inquiry of a general nature or relating to the status of this application should be directed to the Group receptionist, whose telephone number is (571) 272-1300.

A handwritten signature in black ink, appearing to read 'Kaj K. Olsen', with a long horizontal stroke extending to the right.

Kaj K. Olsen
Primary Examiner
AU 1753
January 20, 2004